

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Spring 2011 Levee Inspection Results

Reclamation District No. 2095 Paradise Cut

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)				

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2011 Levee Inspection Results

Reclamation District No. 2095 Paradise Cut

Waterway			Bank	Unit Miles
Unit No. 01 Paradise Cut			Left	1.45

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/27/2011 - 4/27/2011			
DWR Inspector	Jim Eto			
Accompanied By	Bob Pombo RD 2095			

Check one:

- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report.
- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. In addition to the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the report, we have found the following changes in flood project conditions.

(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

Comments

One of the boxes above is to be checked by the Local Maintaining Agency (LMA). If the second box is checked, additional information must also be submitted. This Unit Cover Sheet should be signed and dated by the LMA Representative and returned to DWR with any additional sheets by September 30 (Summer Inspection) or March 31 (Winter Inspection). Please retain a copy for your records. Please mail all of this information to :

DWR Summer/Winter Inspection Reports
3310 El Camino Avenue, Suite 200
Sacramento, CA 95821-9000

X

Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Paradise Cut	Left	1.45	04/27/2011 04/27/2011	Jim Eto

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.35	0.35	Earthen Levee	Encroachments	CR	W	Pipe Inspector Comments: No closure devices or flap gate on discharge pipe. Pipe penetrates freeboard of levee.	37.767822 ° -121.322835 °	37.767822 ° -121.322835 °	5
2	0.41	0.41	Earthen Levee	Erosion / Bank Caving	WS	C	Note and monitor erosion site. Inspector Comments: Sand from channel placed on top of levee slope. The eroding material is not part of the levee prism.	37.766942 ° -121.322287 °	37.766942 ° -121.322287 °	6
3	0.63	0.63	Earthen Levee	Trim / Thin Trees	LS	N	Tree stumps. Inspector Comments: 6 burned stumps on levee slope.	37.764407 ° -121.320110 °	37.764407 ° -121.320110 °	8
4	0.70	0.70	Earthen Levee	Encroachments	WS	W	Pipe Inspector Comments: Irrigation intake penetrates levee freeboard. No positive closure device present.	37.763780 ° -121.319147 °	37.763780 ° -121.319147 °	10
5	0.70	0.70	Earthen Levee	Encroachments	LS	PO	Buildings Inspector Comments: Pump house near RR.	37.763630 ° -121.319045 °	37.763630 ° -121.319045 °	11
6	0.73	0.74	Supplemental	DWR Erosion Survey	WS	M	Inspector Comments: 09/22/2010: No significant changes observed on site. There is now considerable vegetation at the water line and along the lower berm slope. However, the erosion on the lower berm slope is still present and has not been corrected. 08/06/2010: Recommended	37.763630 ° -121.319000 °	37.763630 ° -121.319000 °	2 Y
7	0.86	0.86	Supplemental	DWR Erosion Survey	WS	U	Inspector Comments: 09/22/2010: No significant changes observed. Sloughing of the existing rip rap possibly due to a combination of steep slope and undesirable flood conditions. 08/06/2010: Recommended as local maintenance issue, per CLRO. [2010 SiteID: RD2095U01RM6.88]	37.761960 ° -121.318140 °	37.761960 ° -121.318140 °	1 Y
8	0.88	0.88	Earthen Levee	Encroachments	LS	W	Pipe Inspector Comments: Large pump platform for drainage into San Joaquin River. Three pumps. No positive closure devices. Pipe penetrates levee freeboard. No flap gate at outlet.	37.761362 ° -121.318062 °	37.761362 ° -121.318062 °	15 Y
9	0.88	0.88	Earthen Levee	Encroachments	WS	W	Pipe Inspector Comments: Gravity drain through base of levee. Positive closure on waterside hinge point. Flap gate obstructed by debris has been cleared.	37.761337 ° -121.318047 °	37.761337 ° -121.318047 °	16 Y
10	0.92	0.92	Earthen Levee	Encroachments	LS	M	Pipe Inspector Comments: North pipe is disconnected from pump with no closure devices or flap gate. Pipe runs through levee freeboard. Corrosion on waterside outlet. Hole cut on waterside hinge point where syphon breaker should be. 04/27/2011 situation unchanged. Picture attached	37.760758 ° -121.317720 °	37.760758 ° -121.317720 °	17 Y

*** Location**

LS : Landside
WS : Waterside
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
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PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected/Rated
C : Corrected
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Reclamation District No. 2095 Paradise Cut

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Paradise Cut						Left	1.45	04/27/2011 04/27/2011	Jim Eto

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
11	0.92	0.92	Earthen Levee	Encroachments	LS	W	Pipe Inspector Comments: Pipe on south is connected with siphon breaker at hinge point.	37.760792 ° -121.317705 °	37.760792 ° -121.317705 °	18 Y
12	1.18	1.18	Earthen Levee	Encroachments	WS	W	Equipment Inspector Comments: Fish and Game fish monitoring equipment.	37.759714 ° -121.313181 °	37.759714 ° -121.313181 °	3 Y
13	1.34	1.34	Earthen Levee	Encroachments	WS	W	Equipment Inspector Comments: Department of Fish and Game fish monitoring station.	37.759370 ° -121.310324 °	37.759370 ° -121.310324 °	4 Y

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Paradise Cut	Left	1.45	04/27/2011 04/27/2011	Jim Eto

Levee Mile Report Line	6
Start Levee Mile	0.73
End Levee Mile	0.74
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Downstream view of site.

jeto_s_20110301_256.jpg



Levee Mile Report Line	6
Start Levee Mile	0.73
End Levee Mile	0.74
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Downstream view of site looking from the RxR crossing.

jeto_s_20110301_257.jpg



Levee Mile Report Line	6
Start Levee Mile	0.73
End Levee Mile	0.74
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Downstream view of the site. Note the siphon pipe and pump.

jeto_s_20110301_258.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Paradise Cut	Left	1.45	04/27/2011 04/27/2011	Jim Eto

Levee Mile Report Line	6
Start Levee Mile	0.73
End Levee Mile	0.74
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Downstream view of the site.

jeto_s_20110301_259.jpg



Levee Mile Report Line	7
Start Levee Mile	0.86
End Levee Mile	0.86
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Downstream view of iste.

jeto_s_20110301_252.jpg



Levee Mile Report Line	7
Start Levee Mile	0.86
End Levee Mile	0.86
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Upstream view of site.

jeto_s_20110301_253.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Paradise Cut	Left	1.45	04/27/2011 04/27/2011	Jim Eto

Levee Mile Report Line	7
Start Levee Mile	0.86
End Levee Mile	0.86
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Downstream view of site.

jeto_s_20110301_254.jpg



Levee Mile Report Line	7
Start Levee Mile	0.86
End Levee Mile	0.86
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Upstream view of site from upper slope.

jeto_s_20110301_255.jpg



Levee Mile Report Line	8
Start Levee Mile	0.88
End Levee Mile	0.88
Location	Land Side
Category	Earthen Levee
Item	Encroachments

04/27/2011 Pumps at LM 0.88

jeto_s_20110427_448.jpg



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Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Paradise Cut	Left	1.45	04/27/2011 04/27/2011	Jim Eto

Levee Mile Report Line	9
Start Levee Mile	0.88
End Levee Mile	0.88
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Gravity drainage outlet flapgate blocked by debris.

jeto_s_20110301_260.jpg



Levee Mile Report Line	9
Start Levee Mile	0.88
End Levee Mile	0.88
Location	Water Side
Category	Earthen Levee
Item	Encroachments

Gravity drain inlet.

jeto_s_20110301_261.jpg



Levee Mile Report Line	10
Start Levee Mile	0.92
End Levee Mile	0.92
Location	Land Side
Category	Earthen Levee
Item	Encroachments

04/27/2011 photo shows disconnected north pipe on the right. Situation has not changed since Fall 2010 inspection.

jeto_s_20110427_449.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Paradise Cut	Left	1.45	04/27/2011 04/27/2011	Jim Eto

Levee Mile Report Line	12
Start Levee Mile	1.18
End Levee Mile	1.18
Location	Water Side
Category	Earthen Levee
Item	Encroachments
4/27/2011 Solar powered fish monitoring equipment.	
jeto_s_20110427_450.jpg	



Levee Mile Report Line	13
Start Levee Mile	1.34
End Levee Mile	1.34
Location	Water Side
Category	Earthen Levee
Item	Encroachments
04/27/2011 Department of Fish and Game fish monitoring equipment.	
jeto_s_20110427_451.jpg	

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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2011 Levee Inspection Results

Reclamation District No. 2095 Paradise Cut

Waterway			Bank	Unit Miles
Unit No. 02 San Joaquin River			Left	3.38

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/27/2011 - 4/27/2011			
DWR Inspector	Jim Eto			
Accompanied By	Bob Pombo RD 2095			

Check one:

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(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

Comments

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X

Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Reclamation District No. 2095 Paradise Cut

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River							Left	3.38	04/27/2011 04/27/2011	Jim Eto
LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.33	0.38	Earthen Levee	Vegetation	LS	M	Control annual grass and weeds on the levee slopes and easements.	37.755560 ° -121.305719 °	37.754751 ° -121.305759 °	5 Y
2	0.45	0.45	Earthen Levee	Slope Stability	LS	C	Repair the levee slope damaged by vehicle traffic and prevent access where possible. Inspector Comments: 4 wheeler traffic on levee slope. Straw placed to minimize erosion.	37.753697 ° -121.305812 °	37.753697 ° -121.305812 °	7
3	0.48	2.30	Earthen Levee	Vegetation	LS	M	Control annual grass and weeds on the levee slopes and easements.	37.753434 ° -121.305388 °	37.732616 ° -121.297405 °	8
4	0.62	0.62	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	37.751668 ° -121.304302 °	37.751668 ° -121.304302 °	6
5	0.76	0.76	Earthen Levee	Encroachments	WS	W	Pipe Inspector Comments: Two pipes penetrate levee freeboard. Siphon breakers present.	37.749710 ° -121.303263 °	37.749710 ° -121.303263 °	11
6	0.80	0.80	Earthen Levee	Encroachments	WS	W	Pipe Inspector Comments: Intake pump and pipe.	37.749337 ° -121.302552 °	37.749337 ° -121.302552 °	13
7	0.87	1.02	Earthen Levee	Vegetation	WS	M	Control annual grass and weeds on the levee slopes and easements.	37.749541 ° -121.301246 °	37.749277 ° -121.298874 °	9 Y
8	0.98	0.98	Earthen Levee	Vegetation	WS	M	Elderberries are blocking visibility and flood fight capability.	37.749737 ° -121.300002 °	37.749737 ° -121.300002 °	940
9	1.01	1.01	Earthen Levee	Vegetation	WS	U	Elderberries are blocking visibility and flood fight capability. Inspector Comments: new photo Dense bush within 20' of crown on waterside slope.	37.749650 ° -121.299362 °	37.749650 ° -121.299362 °	941 Y
10	1.03	1.03	Earthen Levee	Vegetation	WS	M	Elderberries are blocking visibility and flood fight capability.	37.749557 ° -121.299053 °	37.749557 ° -121.299053 °	942
11	1.09	1.09	Earthen Levee	Trim / Thin Trees	LS	N	Tree stumps. Inspector Comments: 4 stumps	37.748254 ° -121.298993 °	37.748254 ° -121.298993 °	3
12	1.31	1.31	Earthen Levee	Trim / Thin Trees	LS	C	Tree stumps.	37.745502 ° -121.297760 °	37.745502 ° -121.297760 °	4
13	1.54	1.54	Earthen Levee	Vegetation	WS	M	Elderberries are blocking visibility and flood fight capability.	37.742828 ° -121.297532 °	37.742828 ° -121.297532 °	12
14	1.67	1.67	Earthen Levee	Encroachments	CR	W	Pipe Inspector Comments: Discharge pipe into San Joaquin River. Anti-siphon valve present. Pipe penetrates levee freeboard.	37.741140 ° -121.296328 °	37.741140 ° -121.296328 °	15
15	1.77	1.80	Supplemental	DWR Erosion Survey	WS	U	Inspector Comments: 9/22/2010: No significant changes observed on site. There is moderate vegetation growth on the berm. Despite the erosion occurring on the berm, corrective action should be taken before the issue becomes severe. [2010 Site ID: RD2095U02RM60.62]	37.740196 ° -121.297662 °	37.740196 ° -121.297662 °	1 Y

*** Location**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Reclamation District No. 2095 Paradise Cut

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River				Left	3.38	04/27/2011 04/27/2011	Jim Eto

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
16	1.85	1.89	Supplemental	DWR Erosion Survey	WS	M	Inspector Comments: 09/23/2010: At the time of the inspection, the erosion site was difficult to view from the levee. Erosion is located on the bank toe, below the existing rip rap. There were no signs of repair on site, nor has the site been reported to be repaired by the d	37.738880 ° -121.298260 °	37.738880 ° -121.298260 °	2 Y
17	2.10	2.10	Earthen Levee	Encroachments	WS	W	Pipe	37.735483 ° -121.297912 °	37.735483 ° -121.297912 °	19
18	2.14	2.14	Earthen Levee	Vegetation	WS	M	Elderberries are blocking visibility and flood fight capability.	37.734858 ° -121.297758 °	37.734858 ° -121.297758 °	20 Y
19	2.39	2.39	Earthen Levee	Encroachments	CR	W	Pipe	37.731555 ° -121.298283 °	37.731555 ° -121.298283 °	23
20	2.54	2.54	Earthen Levee	Encroachments	WS	W	Equipment Inspector Comments: Fish monitoring station	37.729395 ° -121.299080 °	37.729395 ° -121.299080 °	10 Y
21	2.62	3.36	Earthen Levee	Vegetation	LS	M	Control annual grass and weeds on the levee slopes and easements.	37.728339 ° -121.299287 °	37.717308 ° -121.305230 °	14
22	2.72	2.72	Earthen Levee	Encroachments	CR	W	Pipe Inspector Comments: Pipe connections have been made. Permit application needed for this emergency repair.	37.726893 ° -121.299542 °	37.726893 ° -121.299542 °	26
23	2.73	2.73	Earthen Levee	Encroachments	CR	W	Pipe Inspector Comments: Discharge pipe with closure structure on waterside hinge point.	37.726733 ° -121.299367 °	37.726733 ° -121.299367 °	25

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.38	04/27/2011 04/27/2011	Jim Eto

Levee Mile Report Line	1
Start Levee Mile	0.33
End Levee Mile	0.38
Location	Land Side
Category	Earthen Levee
Item	Vegetation
04/27/2011 Landside vegetation is inhibiting visibility of the landside slope.	
jeto_s_20110427_452.jpg	



Levee Mile Report Line	7
Start Levee Mile	0.87
End Levee Mile	1.02
Location	Water Side
Category	Earthen Levee
Item	Vegetation
04/27/2011 Weeds taller than 12' on top 20' of landside slope.	
jeto_s_20110427_453.jpg	



Levee Mile Report Line	9
Start Levee Mile	1.01
End Levee Mile	1.01
Location	Water Side
Category	Earthen Levee
Item	Vegetation
Elderberry blocks visibility of levee slope.	
jeto_s_20110301_270.jpg	

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.38	04/27/2011 04/27/2011	Jim Eto

Levee Mile Report Line	15
Start Levee Mile	1.77
End Levee Mile	1.80
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Upstream view of the site from the levee crown.
Note the dense vegetation on the berm.

jeto_s_20110301_262.jpg



Levee Mile Report Line	15
Start Levee Mile	1.77
End Levee Mile	1.80
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Upstream view of the site.

jeto_s_20110301_263.jpg



Levee Mile Report Line	15
Start Levee Mile	1.77
End Levee Mile	1.80
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Upstream view of the site.

jeto_s_20110301_264.jpg



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Unit No. 02 San Joaquin River	Left	3.38	04/27/2011 04/27/2011	Jim Eto

Levee Mile Report Line	15
Start Levee Mile	1.77
End Levee Mile	1.80
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Photo taken in 2009. Front view of the erosion from a boat.

jeto_s_20110301_265.jpg



Levee Mile Report Line	16
Start Levee Mile	1.85
End Levee Mile	1.89
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Direct view of erosion. Photo taken in 2009.

jeto_s_20110301_266.jpg



Levee Mile Report Line	16
Start Levee Mile	1.85
End Levee Mile	1.89
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Downstream view of erosion. Note emergent vegetation on the extended berm. Photo taken in 2009.

jeto_s_20110301_267.jpg



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W : Watch/Monitor

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2011

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.38	04/27/2011 04/27/2011	Jim Eto

Levee Mile Report Line	16
Start Levee Mile	1.85
End Levee Mile	1.89
Location	Water Side
Category	Supplemental
Item	DWR Erosion Survey

Direct view of erosion. Erosion is occurring at the bank, just below the existing rip rap. Photo taken in 2009.

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Levee Mile Report Line	18
Start Levee Mile	2.14
End Levee Mile	2.14
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Vegetation on waterside slope obstructs access and visibility.

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Levee Mile Report Line	20
Start Levee Mile	2.54
End Levee Mile	2.54
Location	Water Side
Category	Earthen Levee
Item	Encroachments

04/27/2011 Department of fish and Game solar powered fish monitoring station.

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*** Location**

LS : Landside
WS : Waterside
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected/Rated

C : Corrected
W : Watch/Monitor